

## FEATURES

- 1 coil latch and 2 coil latch is available
- Low height 15.6mm
- 16A switching capabilities
- 1 pole and 2 pole configurations
- UL & CUL Approval File No.: E179937,  
VDE Approval File No.: 40010237

## CONTACT DATA

|                                     |  |
|-------------------------------------|--|
| Contact form                        | 1A, 1B, 1C   |
| Contact resistance                  | 20m $\Omega$ (1A 24VDC)  |
| Resistive load(Cos $\Phi$ =1)       | 1H,1D: 16A 250VAC,1 $\times$ 10 <sup>5</sup><br>20A 250VAC,3 $\times$ 10 <sup>4</sup><br>1Z: 16A 250VAC,5 $\times$ 10 <sup>4</sup> |
| Inductive load<br>(Cos $\Phi$ =0.4) | 1H,1D: 1.5HP 240VAC<br>8A 220VAC 1 $\times$ 10 <sup>5</sup><br>ME-11-1: 3000W 220VAC, $\times$ 10 <sup>4</sup>                     |
| Switching capacity                  | 5000VA   |
| Max. switching current              | 20A  |
| Max. switching voltage              | 250VAC   |
| Contact material                    | AgSnO <sub>2</sub>   |

## CHARACTERISTICS

|                       |   |
|-----------------------|---|
| Insulation resistance | 1000M $\Omega$  |
| Dielectric strength   | 4400VAC, 1 min. between coil to contacts<br>1000VAC, 1 min. between open contacts |
| Operate time          | $\leq$ 15 ms  |
| Release time          | $\leq$ 15ms   |
| Vibration resistance  | 105Hz -55Hz, 1.5mm  |
| Shock resistance      | Functional: 98m/s <sup>2</sup><br>Destructive: 980m/s <sup>2</sup>                |
| Humidity              | 45% to 85%  |
| Ambient temperature   | - 40 $^{\circ}$ C to + 85 $^{\circ}$ C  |
| Life expectancy       |   |
| - Electrical          | 1 $\times$ 10 <sup>5</sup> operations   |
| - Mechanical          | 3 $\times$ 10 <sup>6</sup> operations   |

## COIL SPECIFICATIONS 1 COIL LATCH

| Nominal voltage<br>(VDC) | Set & reset voltage<br>(VDC) | Nominal current<br>(mA $\pm$ 10%) | Coil resistance<br>( $\Omega$ $\pm$ 10%) | Power<br>consumption(mW) |
|--------------------------|------------------------------|-----------------------------------|--|--------------------------|
| 3                        | 2.5                          | 133.3                             | 22.5                                     | 400                      |
| 5                        | 4.0                          | 80                                | 62.5                                     | 400                      |
| 6                        | 4.8                          | 66.7                              | 90                                       | 400                      |
| 9                        | 7.2                          | 44.4                              | 202.5                                    | 400                      |
| 12                       | 9.6                          | 33.3                              | 360                                      | 400                      |
| 24                       | 19.2                         | 16.7                              | 1440                                     | 400                      |

# ME-11(Latch)

# MASSUSE RELAY

## 2 COIL LATCH

| Nominal voltage (VDC) | Set / Reset voltage (VDC) | Nominal current (mA±10%) | Coil resistance (Ω±10%) | Power consumption(mW) |
|-----------------------|---------------------------|--------------------------|-------------------------|-----------------------|
| 3                     | 2.5                       | 200                      | 15+15                   | 600                   |
| 5                     | 4.0                       | 119                      | 42+42                   | 600                   |
| 6                     | 4.8                       | 100                      | 60+60                   | 600                   |
| 9                     | 7.2                       | 66.7                     | 135+135                 | 600                   |
| 12                    | 9.6                       | 50                       | 240+240                 | 600                   |
| 24                    | 19.2                      | 27                       | 886+886                 | 600                   |

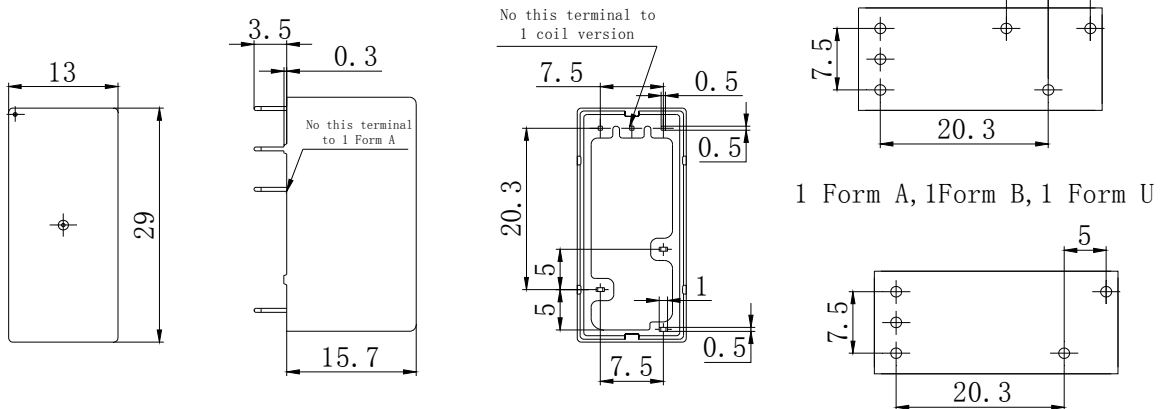
## ORDERING INFORMATION

ME-11 - L1 - 12 - 1H S 1 R

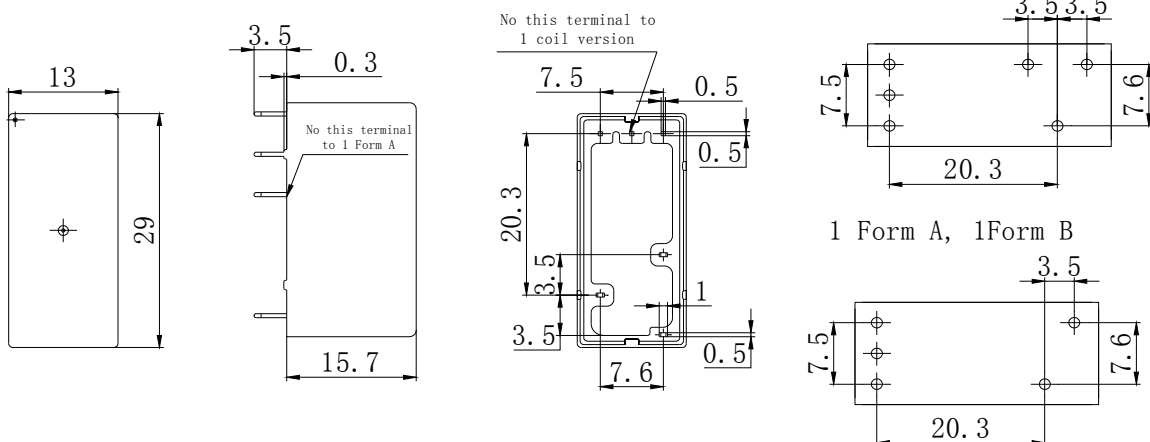
| Model No. | Sort                                 | Coil Voltage               | Contact Form               | Protection                          | Version                        | Polarity   |
|-----------|--------------------------------------|----------------------------|----------------------------|-------------------------------------|--------------------------------|--|
| ME-11     | L1: 1 Coil Latch<br>L2: 2 Coil Latch | 3, 5, 6, 9, 12<br>or 24VDC | 1H: 1A<br>1D: 1B<br>1Z: 1C | Nil: Flux Free<br>Type<br>S: Sealed | 1: 5mm<br>2: 3.5mm<br>3: 2.5mm | Nil: Standard<br>Polarity<br>R: Reverse Polarity |

## OUTLINE DIMENSIONS AND WIRING DIAGRAM (unit: mm)

### ME-11-XXX-1 (5mm Pinning)



### ME-11-XXX-2 (3.5mm Pinning)



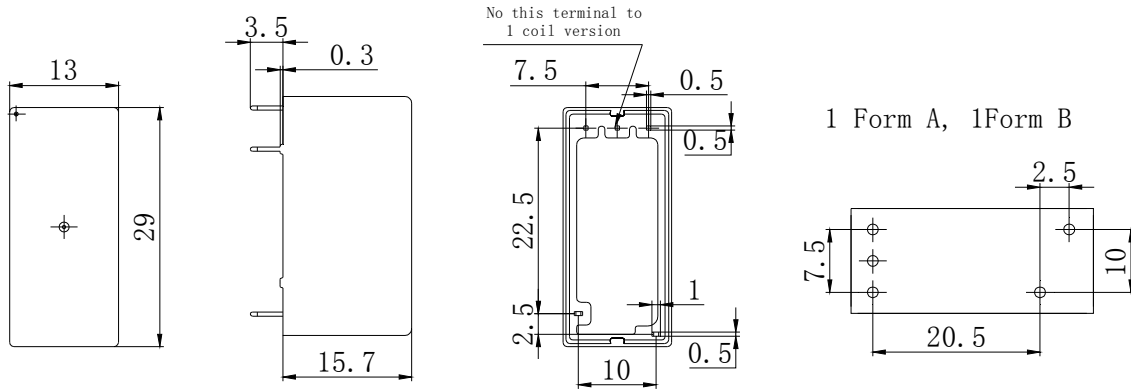
# ME-11(Latch)

# MASSUSE RELAY

## OUTLINE DIMENSIONS AND WIRING DIAGRAM (unit: mm)

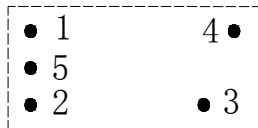
### PCB Layout (Bottom view)

ME-11-XXX-3 (2.5mm Pinning)



ME-11-XXX-3

### Wiring Diagram(Bottom)



### Positive polarity

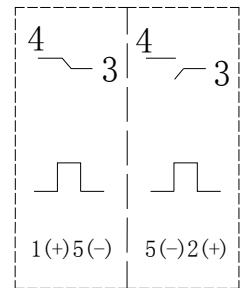
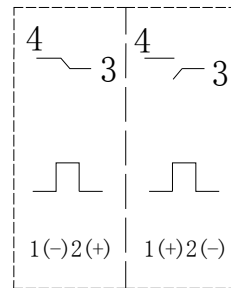
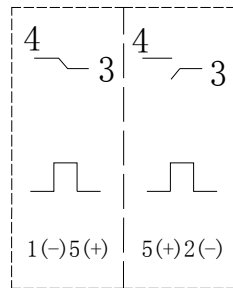
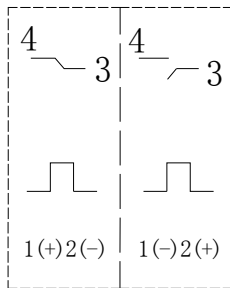
### Reverse polarity

1 coil latching, 1 Form A

2 coil latching, 1 Form A

1 coil latching, 1 Form C

2 coil latching, 1 Form C

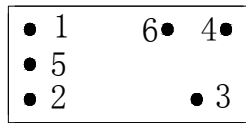


## OUTLINE DIMENSIONS AND WIRING DIAGRAM (unit: mm)

### Wiring Diagram(Bottom)

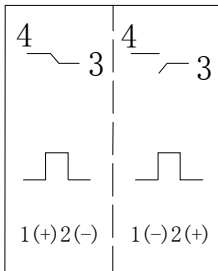
ME-11-XXX-1

ME-11-XXX-2

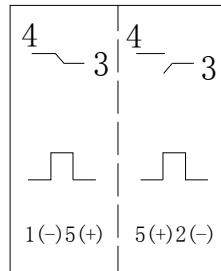


### Positive polarity

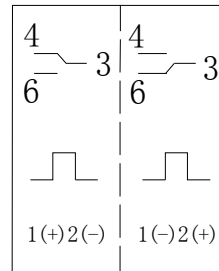
1 coil latching, 1 Form A



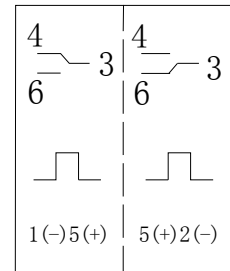
2 coil latching, 1 Form A



1 coil latching, 1 Form C

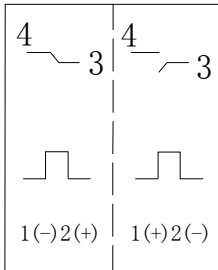


2 coil latching, 1 Form C

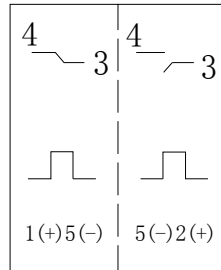


### Reverse polarity

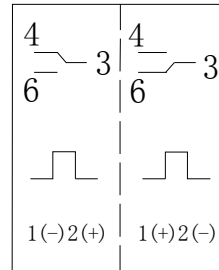
1 coil latching, 1 Form A



2 coil latching, 1 Form A



1 coil latching, 1 Form C



2 coil latching, 1 Form C

